

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/574,787
Source: IFWP
Date Processed by STIC: 5/5/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/574,787

CRF Edit Date: 5/5/06
Edited by: AZ

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  Deleted: _____ invalid beginning/end-of-file text ; _____ page numbers

— Inserted mandatory headings/numeric identifiers, specifically:

— Moved responses to same line as heading/numeric identifier, specifically:

— Other:



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/574,787

DATE: 05/05/2006
TIME: 16:43:47

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05052006\J574787.raw

3 <110> APPLICANT: Bayer HealthCare AG
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with N-Acetylated
 6 Alpha-Linked Acidic Dipeptidase-Like 1 (NAALADASE-like1)
 8 <130> FILE REFERENCE: BHC 03 01 003
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,787
 C--> 10 <141> CURRENT FILING DATE: 2006-04-06
 10 <160> NUMBER OF SEQ ID NOS: 5
 12 <170> SOFTWARE: PatentIn version 3.1
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 2320
 16 <212> TYPE: DNA
 17 <213> ORGANISM: Homo sapiens
 19 <220> FEATURE:
 20 <221> NAME/KEY: misc_feature
 21 <222> LOCATION: (315)..(315)
 22 <223> OTHER INFORMATION: n=a,c,g,t
 24 <400> SEQUENCE: 1
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 27 ggcccccccg gacctggacc tgagatcct ggagaccgtc atggggcagc tggatgccca 180
 28 caggatccgg gagaacctca gagaactctc cagggagcca cacctggcct ccagccctcg 240
 29 ggatgaggac ctggtgcagc tgctgctgca gcgttggaa gaccagagt caggcctgga 300
 W--> 30 ctcggccgag gcctncacgt acgaagtgtc gctgtccttc cctagccagg agcagccaa 360
 31 cgtcgtggac atcggtggcc ccactggggg catcatccac tcctgcca 420
 32 gaacgtgacc ggggagaag gggggccaga tgtggtacaa ccctatgctg cctatgctcc 480
 33 ttctggAACCC ccacaggccc tctcgtcta tgccaaaccgg ggcgcggaaag aagactttaa 540
 34 ggagctacag actcaggcata tcaaacttga aggaccatt gcccgtgactc gatatgggg 600
 35 tgttagggcgt ggggccaagg ctgtgaacgc tgccaagcac gggtagctg gggtagctgg 660
 36 gtacacagac cctggcgaca tcaacgtatgg gctgagctca cccgacgaaa cctttccaa 720
 37 ctctgttac ctggccccc caggatggc gcgaggctcc tactacgagt attttggga 780
 38 ccctctgact ccctaccc tccgtccc ctcttccttc cgcgtggacc ttgccaatgt 840
 39 ctccggattt cccccaattt ctacacagcc cattggcttc caggatgcaa gagacctgct 900
 40 ctgtaacctc aacggaaactt tgccccccagc cacctggcag ggagcactgg gctgccacta 960
 41 cagttgggt cccggcttcc ggctgacgg agactccca gcagacagcc aggtaatgt 1020
 42 gagcgtctac aaccgcctgg agctgaggaa ctcttccaaac gtcctggca tcatccgtgg 1080
 43 ggctgtggag cctgatcgct acgtgtgtt tggaaaccac cgagacagct gggtgcacgg 1140
 44 ggctgtggac cccagcagtg gcaccgcgt cctccctggag ctctccctgt tcctgggac 1200
 45 cctgctgaag aagggcaccc ggcgtcctcg cagatcaatc gtgtttgcga gctggggggc 1260
 46 tgaggagtt gggctcattt gctccacggg attcacagaa gagttcttca acaagctgca 1320
 47 ggagcgcacg gtggccataca tcaacgttggc catctcggtt ttgccaacg ctacccttag 1380
 48 ggtgcagggg acgcccccttgc tccagagcgt cgttctct gcaaccaaag agatccgctc 1440
 49 accaggcccttgc ggcacccatg aacatctacga caactggatc cggtacttca accgcagcag 1500
 50 cccgggttac ggcctggc tccagttggg gctggcagcg actatgcacc 1560

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Input Set : A:\PTO.AMC.txt
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51	cttcgttcac	tccctggca	tctcctccat	ggacattgcc	tatacctatg	accggagcaa	1620										
52	gacttcagcc	aggatctacc	ccacacctca	cacagcctt	gacacctttg	actatgtgga	1680										
53	caagttttg	gaccgggct	tcagcagcca	tcaggtgtg	gcccggacag	cggggagtgt	1740										
54	gattctccgg	ctcagtgaca	gcttcttcct	gccctcaaa	gtcagtgact	acagtgagac	1800										
55	actccgcagc	tccctgcagg	cagcccagca	agatcttggg	gccctgtgg	agcagcacag	1860										
56	catcagcctg	gggcctctgg	tgactgcagt	ggagaagttt	gaggcagaag	ctgcagcctt	1920										
57	gggccaacgc	atatcaacac	tgcagaaggg	cagccctgac	cccctgcagg	tccggatgct	1980										
58	caatgaccag	ttgatgtct	tggAACGGAC	ctttctgaac	cctagagct	tcccagagga	2040										
59	acgtaactac	agccatgtgc	tctgggcacc	ttcgcacggg	ctccgtagtc	acattccggg	2100										
60	gctatccaat	gcctgctcca	gggccaggga	cacagttct	ggatctgaag	cttgggctga	2160										
61	ggtccagaga	cagtcagca	ttgtggtgac	agccctggag	gtgcggcag	ccaccctgag	2220										
62	gcctgtggct	gacctctgac	cccagccctc	tttcttcagc	cctccctta	ctccgggtct	2280										
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71	<221> NAME/KEY: MISC_FEATURE																
72	<222> LOCATION: (100)..(100)																
73	<223> OTHER INFORMATION: X=any																
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78	Leu	Gly	Leu	Gly	Ile	Ile	Leu	Gly	His	Phe	Ala	Ile	Pro	Lys	Lys	Ala	
79					20			25			30						
80	Asn	Ser	Leu	Ala	Pro	Gln	Asp	Leu	Asp	Leu	Glu	Ile	Leu	Glu	Thr	Val	
81					35			40			45						
82	Met	Gly	Gln	Leu	Asp	Ala	His	Arg	Ile	Arg	Glu	Asn	Leu	Arg	Glu	Leu	
83					50			55			60						
84	Ser	Arg	Glu	Pro	His	Leu	Ala	Ser	Ser	Pro	Arg	Asp	Glu	Asp	Leu	Val	
85		65			70			75			80						
86	Gln	Leu	Leu	Leu	Gln	Arg	Trp	Lys	Asp	Pro	Glu	Ser	Gly	Leu	Asp	Ser	
87					85			90			95						
W-->	88	Ala	Glu	Ala	Xaa	Thr	Tyr	Glu	Val	Leu	Leu	Ser	Phe	Pro	Ser	Gln	Glu
89					100			105			110						
90	Gln	Pro	Asn	Val	Val	Asp	Ile	Val	Gly	Pro	Thr	Gly	Gly	Ile	Ile	His	
91					115			120			125						
92	Ser	Cys	His	Arg	Thr	Glu	Glu	Asn	Val	Thr	Gly	Glu	Gln	Gly	Gly	Pro	
93					130			135			140						
94	Asp	Val	Val	Gln	Pro	Tyr	Ala	Ala	Tyr	Ala	Pro	Ser	Gly	Thr	Pro	Gln	
95		145			150			155			160						
96	Gly	Leu	Leu	Val	Tyr	Ala	Asn	Arg	Gly	Ala	Glu	Glu	Asp	Phe	Lys	Glu	
97					165			170			175						
98	Leu	Gln	Thr	Gln	Gly	Ile	Lys	Leu	Glu	Gly	Thr	Ile	Ala	Leu	Thr	Arg	
99					180			185			190						
100	Tyr	Gly	Gly	Val	Gly	Arg	Gly	Ala	Lys	Ala	Val	Asn	Ala	Ala	Lys	His	
101				195			200			205							
102	Gly	Val	Ala	Gly	Val	Leu	Val	Tyr	Thr	Asp	Pro	Ala	Asp	Ile	Asn	Asp	

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Input Set : A:\PTO.AMC.txt
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103	210	215	220													
104	Gly	Leu	Ser	Ser	Pro	Asp	Glu	Thr	Phe	Pro	Asn	Ser	Trp	Tyr	Leu	Pro
105	225						230				235					240
106	Pro	Ser	Gly	Val	Glu	Arg	Gly	Ser	Tyr	Tyr	Glu	Tyr	Phe	Gly	Asp	Pro
107							245				250					255
108	Leu	Thr	Pro	Tyr	Leu	Pro	Ala	Val	Pro	Ser	Ser	Phe	Arg	Val	Asp	Leu
109							260			265						270
110	Ala	Asn	Val	Ser	Gly	Phe	Pro	Pro	Ile	Pro	Thr	Gln	Pro	Ile	Gly	Phe
111							275			280						285
112	Gln	Asp	Ala	Arg	Asp	Leu	Leu	Cys	Asn	Leu	Asn	Gly	Thr	Leu	Ala	Pro
113							290			295						300
114	Ala	Thr	Trp	Gln	Gly	Ala	Leu	Gly	Cys	His	Tyr	Arg	Leu	Gly	Pro	Gly
115							305			310			315			320
116	Phe	Arg	Pro	Asp	Gly	Asp	Phe	Pro	Ala	Asp	Ser	Gln	Val	Asn	Val	Ser
117							325			330			335			
118	Val	Tyr	Asn	Arg	Leu	Glu	Leu	Arg	Asn	Ser	Ser	Asn	Val	Leu	Gly	Ile
119							340			345			350			
120	Ile	Arg	Gly	Ala	Val	Glu	Pro	Asp	Arg	Tyr	Val	Leu	Tyr	Gly	Asn	His
121							355			360			365			
122	Arg	Asp	Ser	Trp	Val	His	Gly	Ala	Val	Asp	Pro	Ser	Ser	Gly	Thr	Ala
123							370			375			380			
124	Val	Leu	Leu	Glu	Leu	Ser	Arg	Val	Leu	Gly	Thr	Leu	Leu	Lys	Lys	Gly
125							385			390			395			400
126	Thr	Trp	Arg	Pro	Arg	Arg	Ser	Ile	Val	Phe	Ala	Ser	Trp	Gly	Ala	Glu
127							405			410			415			
128	Glu	Phe	Gly	Leu	Ile	Gly	Ser	Thr	Glu	Phe	Thr	Glu	Glu	Phe	Phe	Asn
129							420			425			430			
130	Lys	Leu	Gln	Glu	Arg	Thr	Val	Ala	Tyr	Ile	Asn	Val	Asp	Ile	Ser	Val
131							435			440			445			
132	Phe	Ala	Asn	Ala	Thr	Leu	Arg	Val	Gln	Gly	Thr	Pro	Pro	Val	Gln	Ser
133							450			455			460			
134	Val	Val	Phe	Ser	Ala	Thr	Lys	Glu	Ile	Arg	Ser	Pro	Gly	Pro	Gly	Asp
135							465			470			475			480
136	Leu	Ser	Ile	Tyr	Asp	Asn	Trp	Ile	Arg	Tyr	Phe	Asn	Arg	Ser	Ser	Pro
137							485			490			495			
138	Val	Tyr	Gly	Leu	Val	Pro	Ser	Leu	Gly	Ser	Leu	Gly	Ala	Gly	Ser	Asp
139							500			505			510			
140	Tyr	Ala	Pro	Phe	Val	His	Phe	Leu	Gly	Ile	Ser	Ser	Met	Asp	Ile	Ala
141							515			520			525			
142	Tyr	Thr	Tyr	Asp	Arg	Ser	Lys	Thr	Ser	Ala	Arg	Ile	Tyr	Pro	Thr	Tyr
143							530			535			540			
144	His	Thr	Ala	Phe	Asp	Thr	Phe	Asp	Tyr	Val	Asp	Lys	Phe	Leu	Asp	Pro
145							545			550			555			560
146	Gly	Phe	Ser	Ser	His	Gln	Ala	Val	Ala	Arg	Thr	Ala	Gly	Ser	Val	Ile
147							565			570			575			
148	Leu	Arg	Leu	Ser	Asp	Ser	Phe	Phe	Leu	Pro	Leu	Lys	Val	Ser	Asp	Tyr
149							580			585			590			
150	Ser	Glu	Thr	Leu	Arg	Ser	Phe	Leu	Gln	Ala	Ala	Gln	Gln	Asp	Leu	Gly
151							595			600			605			

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DATE: 05/05/2006
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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05052006\J574787.raw

152 Ala Leu Leu Glu Gln His Ser Ile Ser Leu Gly Pro Leu Val Thr Ala
153 610 615 620
154 Val Glu Lys Phe Glu Ala Glu Ala Ala Leu Gly Gln Arg Ile Ser
155 625 630 635 640
156 Thr Leu Gln Lys Gly Ser Pro Asp Pro Leu Gln Val Arg Met Leu Asn
157 645 650 655
158 Asp Gln Leu Met Leu Leu Glu Arg Thr Phe Leu Asn Pro Arg Ala Phe
159 660 665 670
160 Pro Glu Glu Arg Tyr Tyr Ser His Val Leu Trp Ala Pro Ser His Gly
161 675 680 685
162 Leu Arg Ser His Ile Pro Gly Leu Ser Asn Ala Cys Ser Arg Ala Arg
163 690 695 700
164 Asp Thr Ala Ser Gly Ser Glu Ala Trp Ala Glu Val Gln Arg Gln Leu
165 705 710 715 720
166 Ser Ile Val Val Thr Ala Leu Glu Gly Ala Ala Ala Thr Leu Arg Pro
167 725 730 735
168 Val Ala Asp Leu
169 740
171 <210> SEQ ID NO: 3
172 <211> LENGTH: 20
173 <212> TYPE: DNA
174 <213> ORGANISM: artificial sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: forward primer
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184 <212> TYPE: DNA
185 <213> ORGANISM: artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: reverse primer
190 <400> SEQUENCE: 4
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193 <210> SEQ ID NO: 5
194 <211> LENGTH: 19
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196 <213> ORGANISM: artificial sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: probe
201 <400> SEQUENCE: 5
202 ctggactcg 19
ccgaggcct

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/574,787

DATE: 05/05/2006
TIME: 16:43:48

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05052006\J574787.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 315
Seq#:2; Xaa Pos. 100

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/574,787

DATE: 05/05/2006

TIME: 16:43:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05052006\J574787.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300

L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96

Raw Sequence Listing before editing (for reference only)



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/574,787

DATE: 05/04/2006
TIME: 14:04:29

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05042006\J574787.raw

3 <110> APPLICANT: Bayer HealthCare AG
 5 <120> TITLE OF INVENTION: Diagnostics and Therapeutics for Diseases Associated with N-Acetylated
 6 Alpha-Linked Acidic Dipeptidase-Like 1 (NAALADASE-like1)
 8 <130> FILE REFERENCE: BHC 03 01 003
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/574,787
 C--> 10 <141> CURRENT FILING DATE: 2006-04-06
 10 <160> NUMBER OF SEQ ID NOS: 5
 12 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

193 <210> SEQ ID NO: 5
 194 <211> LENGTH: 19
 195 <212> TYPE: DNA
 196 <213> ORGANISM: artificial sequence
 198 <220> FEATURE:
 199 <223> OTHER INFORMATION: probe
 201 <400> SEQUENCE: 5
 202 ctggactcgccgaggcct

E--> 204 BHC 03 1 003-Foreign Countries
 W--> 206 - 5 -
 E--> 209 BHC 03 1 003-Foreign Countries
 W--> 211 - 1 -

**Does Not Comply
 Corrected Diskette Needed**

19

delete

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/574,787

DATE: 05/04/2006
TIME: 14:04:30

Input Set : A:\pto.da.txt
Output Set: N:\CRF4\05042006\J574787.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:300
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:96
L:204 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:206 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:209 M:334 E: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:5
L:211 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5